



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

StormBlok System, Inc.  
972 Alderman Road  
Palmyra, NY 14522

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: "StormBlok Hurricane Protection System" Flexible Wind Abatement System

**APPROVAL DOCUMENT:** Drawing No. 13-111-SB-HPS-ER, titled "StormBlok Hurricane Protection System", sheets 1 through 12 of 12, prepared by CBuck Engineering, last revision dated January 31, 2014, signed and sealed by James L. Buckner, P.E., on February 04, 2014, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each screen shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved" and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
02/20/2014

NOA No. 13-0916.05  
Expiration Date: 02/20/2019  
Approval Date: 02/20/2014  
Page 1

**StormBlok System, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 13-111-SB-HPS-ER, titled "StormBlok Hurricane Protection System", sheets 1 through 12 of 12, prepared by CBuck Engineering, last revision dated January 31, 2014, signed and sealed by James L. Buckner, P.E., on February 04, 2014.*

**B. TESTS**

1. *Test report on Large Missile Impact Test, Static Wind Pressure Test, and Cyclic Wind Pressure Test of StormBlok System, prepared by Hurricane Test Laboratory, Inc., Report No. T483-1001-08, dated September 04, 2009, signed and sealed by Steven R. Samuels, P.E.*
2. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of StormBlok System, prepared by Architectural Testing, Report No. C3374.01-109-18, dated January 02, 2013, signed and sealed by Michael D. Stremmel, P.E.*

**C. CALCULATIONS**

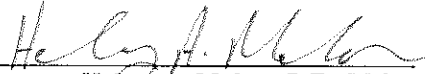
1. *Anchor calculations, dated July 12, 2013, pages 1 through 5 of 5, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *Woven fabric analysis Inspection Report # 1204-289-66638A, dated June 18, 2013, with composition and physical properties.*

  
Helmy A. Makar, P.E., M.S.  
Product Control Unit Supervisor  
NOA No. 13-0916.05  
Expiration Date: 02/20/2019  
Approval Date: 02/20/2014

# Engineering Report & Drawings

## StormBlok Hurricane Protection System

Manufacturer  
**StormBlok Systems, Inc.**

For

**Miami-Dade Notice of Acceptance**

**Category: Flexible Wind Abatement Systems**

**Product Assembly Name:** *StormBlok Hurricane Protection System*

### Prepared by:

James L. Buckner, P.E., SECB  
Florida Professional Engineer # 31242  
Project Manager: Youry Demosthenes  
Report No.: 13-111-SB-HPS-ER  
Date: 8 / 20 / 13  
Revision: 1 / 31 / 14

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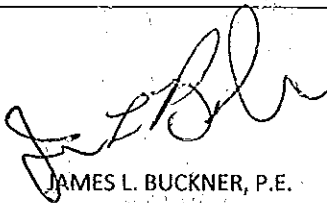

### Contents:

Cover Page:  
Evaluation:  
Drawings & Details:

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Approved as complying with the  
Florida Building Code  
Date 02/25/2014  
NOA# 13-0916-06  
Miami Dade Product Control

By H. G. A. M.

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 2/1/14	TITLE: ENGINEERING REPORT For StormBlok Hurricane Protection System		
	 CBUCK Engineering CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	MANUFACTURER: StormBlok Systems, Inc. 972 Alderman Road Palmyra, NY 14522	DATE: 8 / 20 / 13
			PAGE #: 1 OF 12
			REPORT #: 13-111-SB-HPS-ER
			DRAWN BY: YD
		REVISION: 1 / 31 / 14	

## 1.0 Product

- 1.1 **Manufacturer:** StormBlok Systems, Inc.  
1.2 **Product Name:** Stormblok Hurricane Protection System

## 2.0 Evaluation Scope:

### 2.1 Evaluation Criteria:

Florida Building Code (FBC) 2010  
Code Section: High Velocity Hurricane Zone (HVHZ)  
Miami-Dade County Department of Regulatory and Economic Resources Product Control Section Checklist #235  
And Testing Application Standards TAS 201, 202 and 203.

### 2.2 Evaluation Classification:

Category: Flexible Wind Abatement Systems

### 2.3 Properties Evaluated:

Wind Resistance Properties  
Uniform Static Air Pressure  
Large Missile Impact  
Cyclic Wind Pressure

### 2.4 Limits of Evaluation:

This product is limited to compliance with Miami-Dade Testing Application Standards TAS 201, 202 and 203 and Acceptance Criteria #235.

## 3.0 Evaluated Uses:

The StormBlok Hurricane Protection System as evaluated in this report is used as an temporary protection against wind borne debris during a hurricane or wind storm events.

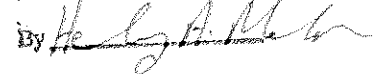
## 4.0 Product General Description:

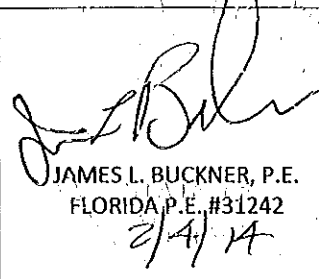
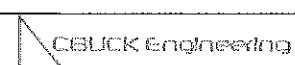
The StormBlok Hurricane Protection System is a flexible wind abatement and impact protection system. It is used as a temporary protection system in both residential and commercial applications. The StormBlok Hurricane Protection System is designed of a pyramidal shape assembly. The assembly consists of a protective textile fabric cover and a structural core made of extruded fiberglass and metal framing. The assembly is attached to the support by mechanical fasteners. The support can be vertical or inclined.

## 5.0 Evaluated Sizes:

Pyramid Base: 4 ft x 5 ft Maximum  
Pyramid Height: 22" - 36"

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By 

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	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	MANUFACTURER: StormBlok Systems, Inc. 972 Alderman Road Palmyra, NY 14522	DATE: 8/20/13
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## 6.0 Performance:

### 6.1.1 Uniform Static Air Pressure:

Standard: TAS 202  
Design Pressure: Positive + 50 psf  
Negative - 60 psf

(Note: Design Pressure with Protocol safety factor)

### 6.1.2 Impact Rating:

Type: Large Missile Impact  
Standard: TAS 201  
Results: Passed

### 6.1.3 Cyclic Wind Pressure:

Standard: TAS 203  
Results: Passed

## 7.0 Support Anchorage:

The following is the minimum physical properties to support the design load in this report:

### 7.1 Concrete Masonry Unit (CMU)

Compressive Strength: 1,900 psi Minimum  
Standard: ASTM C90

### 7.2 Wood framing

Type: Dimensional Lumber  
Density/Specific Gravity: 0.42 Minimum  
Dimension: 2 x 4 Minimum

## 8.0 Code Compliance

8.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 2010 for the properties evaluated.

## 9.0 Limitations of Use:

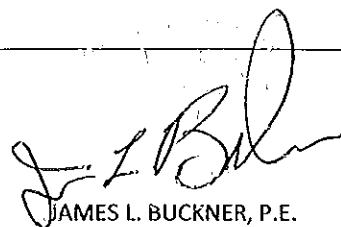
- 9.1 Seasonal or permanent installation of the StormBlok Hurricane Protection System in areas exposed to sunlight and/or other weathering conditions is outside the scope of this evaluation.
- 9.2 Verification of the structural adequacy of support anchorage component is beyond the scope of this evaluation.

## 10.0 Identification:

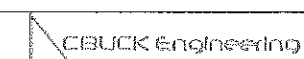
10.1 Each panel of fabric shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state, model/series and the following statement: "Miami-Dade County Product Control Approved".

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By Heidi A. M...

  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
2/1/14

### TITLE: ENGINEERING REPORT For StormBlok Hurricane Protection System

  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

MANUFACTURER:  
StormBlok Systems, Inc.  
972 Alderman Road  
Palmyra, NY 14522

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## 11.0 Components of the Assembly Evaluated

### 11.1 StormBlok Cover

Part #: 601  
Manufacturer: Stafford Textiles Limited  
Product Name: Staftex DYN/1919  
Fabric Material: Woven Polyester  
Fabric Material Thickness: 35 mil Nominal  
Material Properties:  
Grab Textile Strength: 965 × 1,034 lbs Per ASTM D4632  
Puncture Strength: 341 lbs Per ASTM D4833  
Trapezoidal Tearing Strength: 553 × 515 lbs Per ASTM D4533  
Bursting Strength: > 750 psi Per ASTM D3786  
Apparent Opening Size (AOS) 2.95 mil Per ASTM D4751

### 11.2 Turret

Part #: 050  
Manufacturer: Metal Supermarkets  
Material: Steel  
Thickness: 3/16"  
Overall Dimension: 3" L × 3" W × 1-1/8" H  
Quantity per assembly: 8

### 11.3 Compression Spring Music Wire

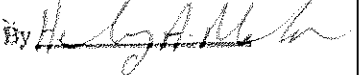
Part #: 301  
Manufacturer: McMaster-Carr (Part ID: 9657K94)  
Material: Steel  
Outside Diameter: 5/8" Nominal  
Quantity per assembly: 8

### 11.4 Rods


Manufacturer: Curbell  
Material: Extruded Fiberglass  
Tensile Strength: 90 ksi  
Outside Diameter: 3/4"

Part #:	Rod Name:	Length:	Quantity:
101	Corner Rod	38"	4
102	End Rod	33"	2
103	Side Rod	27"	2
104	Cross-Top Corner Rod	39-3/4"	1
105	Cross-Side Rod	25-3/4"	1
106	Cross-End Rod	35-1/4"	1
107	Cross-Bottom Corner Rod	44-1/2"	1

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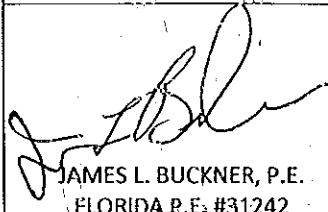
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JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
2/4/14

**11.5 Spring Rod – End**

Part #: 001  
Manufacturer: Metal Supermarkets  
Material: Aluminum  
Alloy: 6061 T6  
Inside Diameter: 0.742"  
Outside Diameter: 1.050"  
Length: 6"  
Quantity per assembly: 8

**11.6 Hub Rod – End**

Part #: 002  
Manufacturer: Metal Supermarkets  
Material: Aluminum  
Alloy: 6061 T6  
Inside Diameter: 0.750"  
Outside Diameter: 1.000"  
Length: 3.5"  
Quantity per assembly: 8

**11.7 Cross – Support Rod – End**

Part #: 010  
Manufacturer: Metal Supermarkets  
Material: Aluminum  
Alloy: 6061 T6  
Inside Diameter: 0.742"  
Outside Diameter: 1.050"  
Length: 3"  
Quantity per assembly: 8

**11.8 Cross – Support Brace**

Part #: 011  
Manufacturer: Metal Supermarkets  
Material: Aluminum  
Alloy: 6061 T6  
Dimensions: Refer to Drawing  
Quantity per assembly: 8


**11.9 Hub Ring**

Part #: 201  
Manufacturer: Metal Supermarkets  
Material: Steel  
Thickness: 3/8"  
Inside Diameter: 4.5"  
Outside Diameter: 4.875"  
Quantity per assembly: 1

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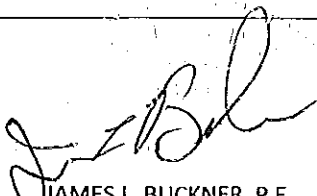
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**JAMES L. BUCKNER, P.E.**  
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2/4/14

**11.10 Hub Plug**

Part #: 202  
 Manufacturer: McMaster-Carr  
 Material: Neoprene Spring Rubber  
 Dimensions: Refer to Drawing  
 Quantity per assembly: 1

**11.11 Assembly Fasteners**

Part #:	Manufacturer:	Part ID:	Type:	Size:	Quantity:
401	McMaster-Carr	91251A546	Socket Head Cap Screw	1/4"-20 x 1-1/2"	32
402	McMaster-Carr	91251A548	Socket Head Cap Screw	1/4"-20 x 1-3/4"	16
403	McMaster-Carr	91251A544	Socket Head Cap Screw	1/4"-20 x 1-1/4"	8
410	McMaster-Carr	95615A120	Steel Nylon-Insert Hex Locknut	1/4"-20 Thread	48
411	McMaster-Carr	90532A200	Steel Acorn Nut	1/4"-20 Thread	8

**11.12 Support Fastener**

Part #: 501  
 Manufacturer: Buildex  
 Type: Tapcon Concrete Anchor  
 Size: 1/4" x 1-3/4"  
 Minimum Embedment: 1-1/4"  
 Minimum Edge distance: 1"  
 Quantity per assembly: 80

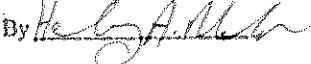
**11.13 Lashing Strap with Non-Slip Cam Buckle (Factory Installed)**

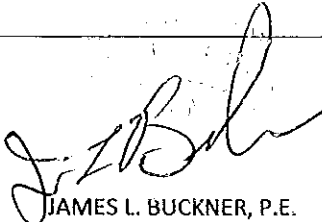
Part #: 610  
 Manufacturer: Big Top (Part ID: 40058-3VGA)  
 Material: Polyester Webbing  
 Width: 1" Wide  
 Quantity per assembly: 24

**11.14 Footmans Loops**

Part #: 701  
 Manufacturer: Bosun Supplies (Part ID: S3710)  
 Material: Stainless Steel  
 Dimension: Refer to Component Drawing  
 Quantity per assembly: 24


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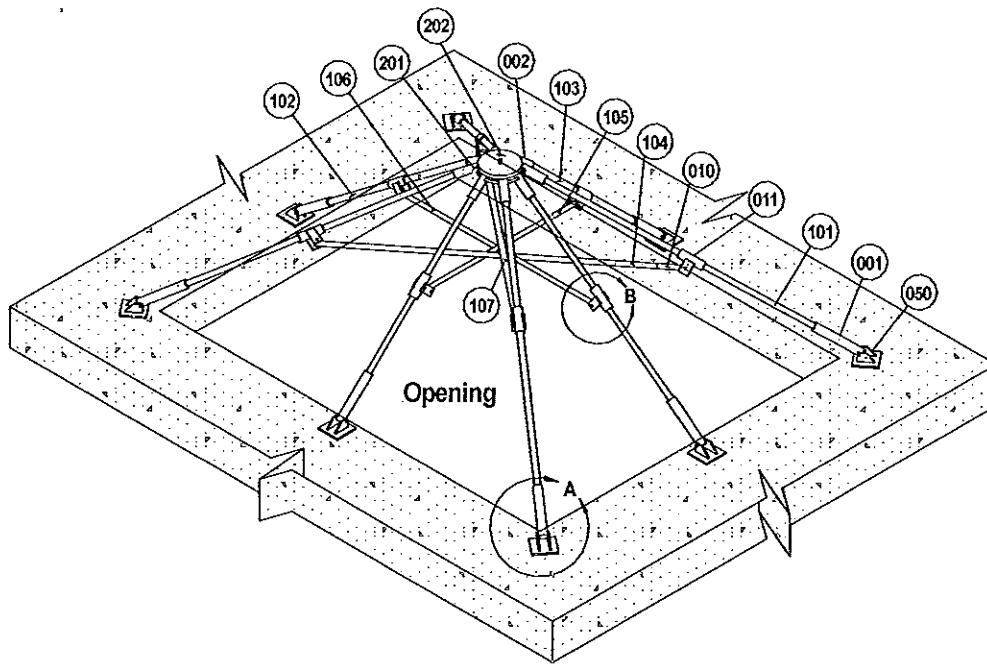
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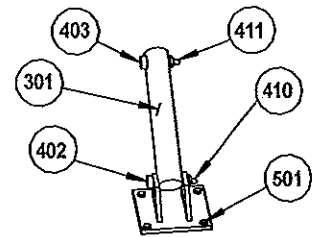
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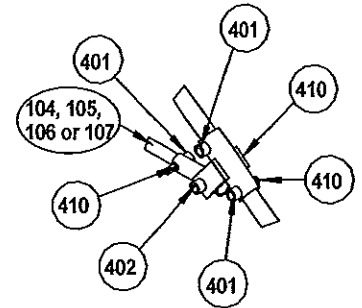




**Typical Framing Assembly**



**Typical Rod Attachment to Support  
Detail A**



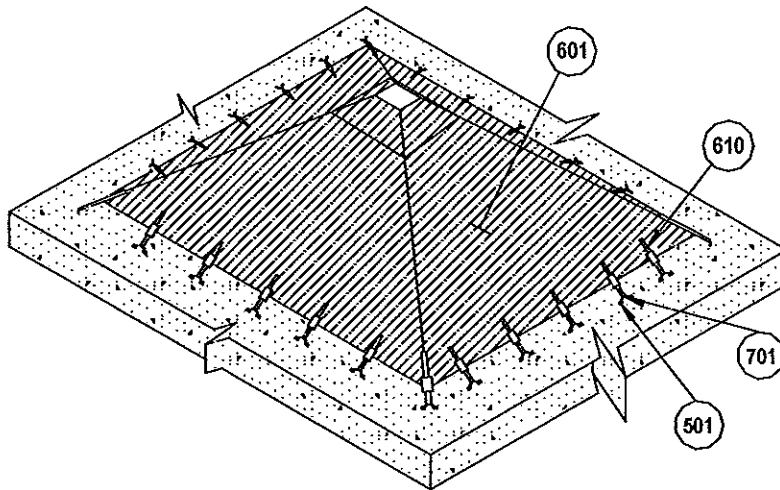
**Typical Rod Framing Attachment  
Detail B**

**Component List:**

Part #:	Part ID:
001	Spring Rod End
002	Hub Rod End
010	Cross-Support Rod End
011	Cross-Support Brace
050	Turret
101	Corner Rods
102	End Rods
103	Side Rods
104	Cross-Top Corner Rod
105	Cross-Side Rods
106	Cross-End Rods
107	Cross-Bottom Corner Rod
201	Hub Ring
202	Hub Plug
301	Compression Spring Music Wire (9657K94)
401	Socket Head Cap Screws (91251A546)
402	Socket Head Cap Screws (91251A548)
403	Socket Head Cap Screws (91251A548)
410	Steel Nylon-Insert Hex Locknut (95615A120)
411	Steel Acorn Nut (9032A200)
501	Tapcon Concrete Anchor
601	StormBlok Cover
610	Lashing Strap with Non-Slip Cam Buckle (40058-3VGA)
701	Footmans Loops (S3710)

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By [Signature]



**Typical StormBlok Cover Attachment**

Not To Scale

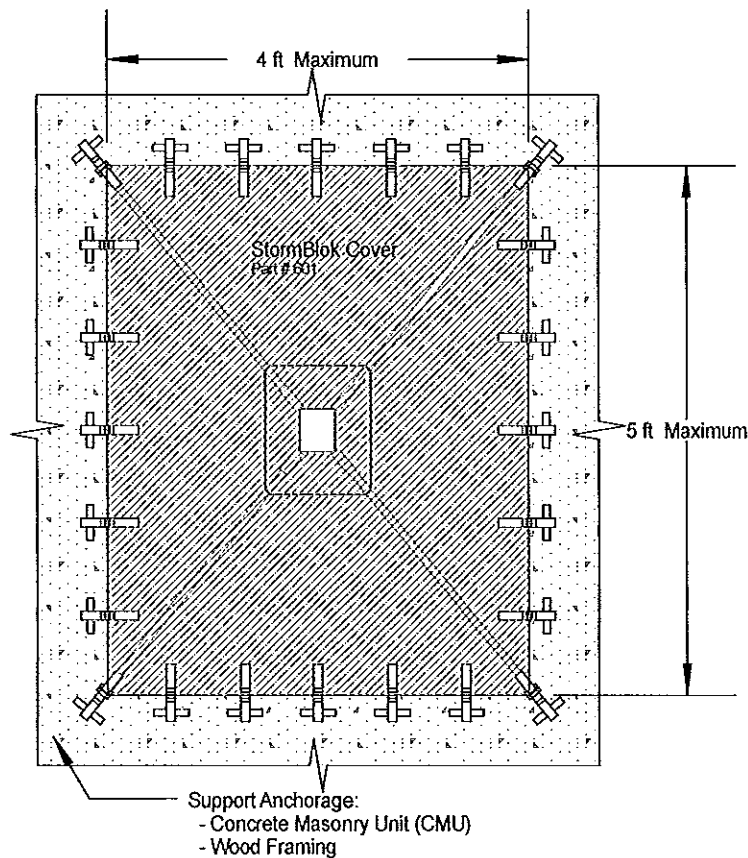
[Signature]  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
2/4/14

**TITLE: INSTALLATION DRAWINGS  
For StormBlok Hurricane Protection System**

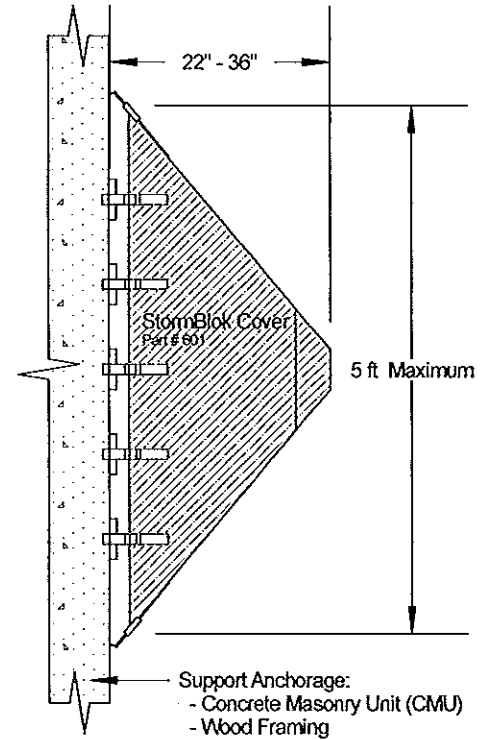
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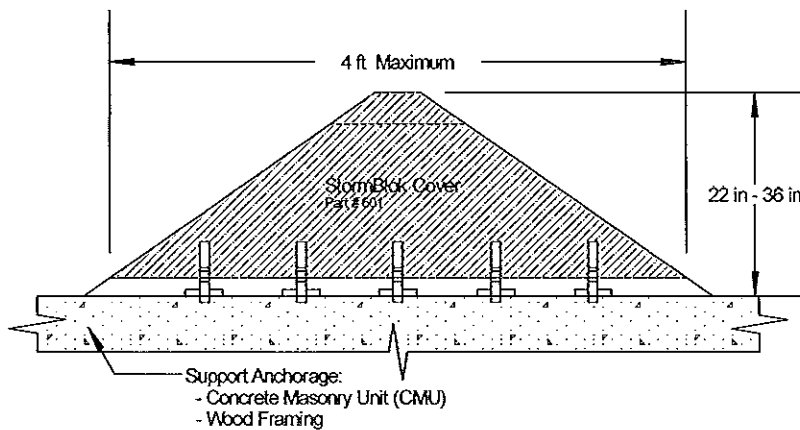
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**StormBlok Assembly Elevation w/ Cover**  
**Typical Plan View**



**StormBlok Assembly w/ Cover**  
**Typical Side Section View**



**StormBlok Assembly w/ Cover**  
**Typical Side Section View**

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By Healy A. M. M.

Not To Scale

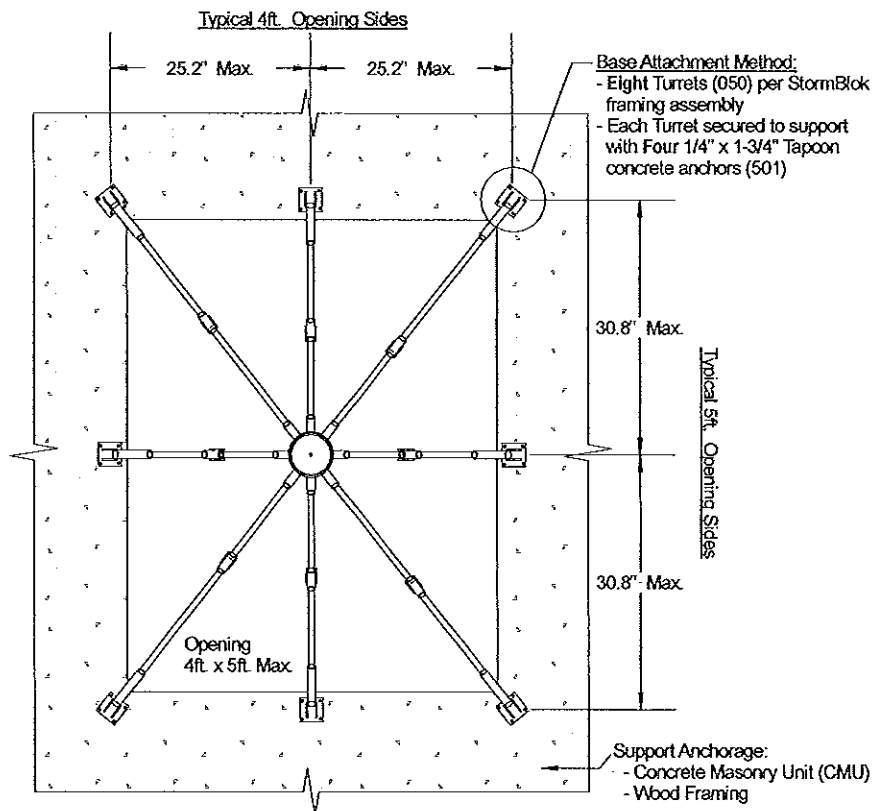
*J. L. Buckner*  
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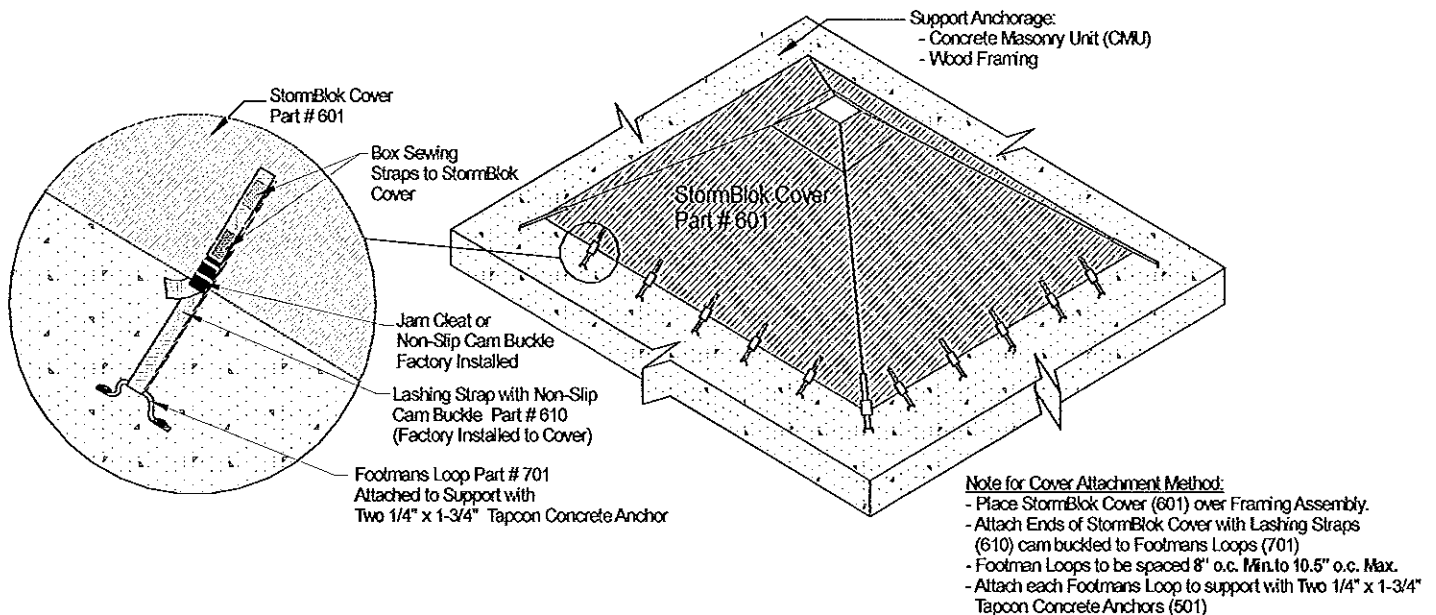
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DRAWN BY:	YD
REVISION:	1 / 31 / 14



Approved as complying with the  
 Florida Building Code  
 Date 02/20/2014  
 NOAH 13-0916.05  
 Miami Dade Product Control

By Herby A. Miller

### Typical Framing Attachment to Support



### Typical StormBlok Cover Attachment to Support

Not To Scale

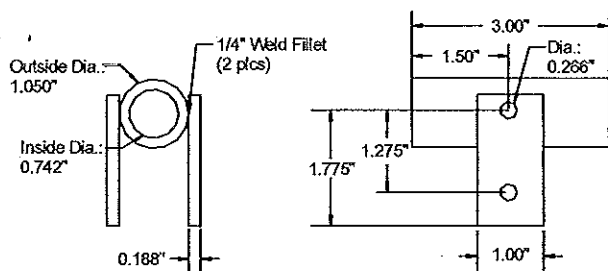
J. L. Buckner  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 2/4/14

### TITLE: ENGINEERING REPORT For StormBlok Hurricane Protection System

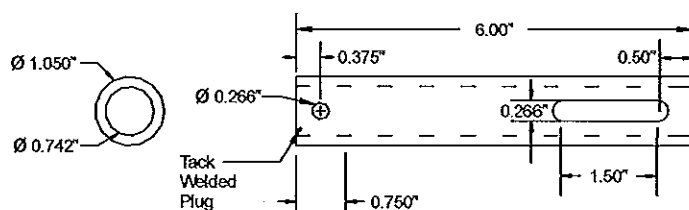
CBUCK Engineering  
 CBUCK, Inc. COA #8064  
 1399 N. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

MANUFACTURER:  
 StormBlok Systems, Inc.  
 972 Alderman Road  
 Palmyra, NY 14522

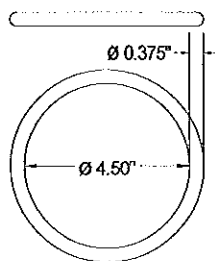
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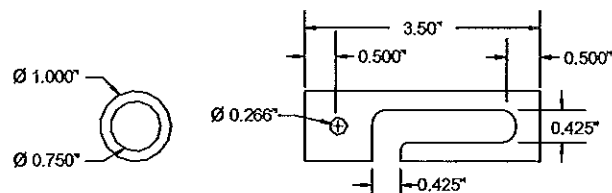
**Cross-Support Brace (8)**  
**Part #: 011**



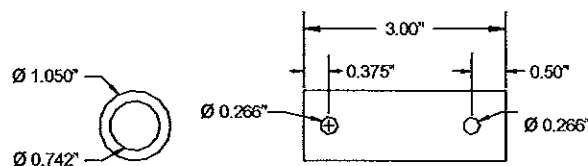
**Spring Rod-End (8)**  
**Part #: 001**



**Hub Ring (1)**  
**Part #: 201**



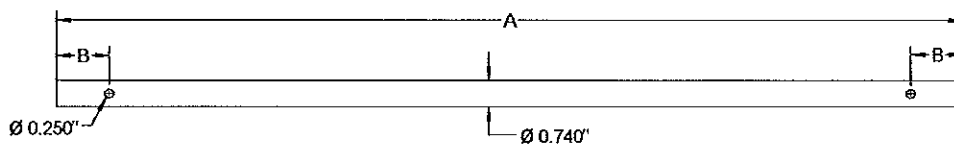
**Hub Rod-End (8)**  
**Part #: 002**



**Cross-Support Rod End (8)**  
**Part #: 010**

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**Rods**

Part #	Rod Name	Quantity	A	B
101	Corner Rod	4	38.00"	2.00"
102	End Rod	2	33.00"	2.00"
103	Side Rod	2	27.00"	2.00"
104	Cross-Top Corner Rod	1	39.75"	1.50"
105	Cross-Side Rod	1	25.75"	1.50"
106	Cross-End Rod	1	35.25"	1.50"
107	Cross-Bottom Corner Rod	1	44.50"	1.50"

Not To Scale

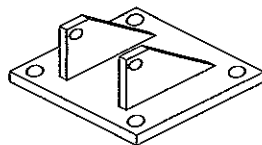
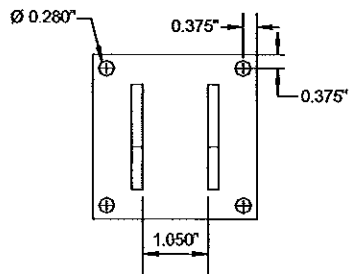
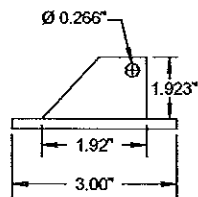
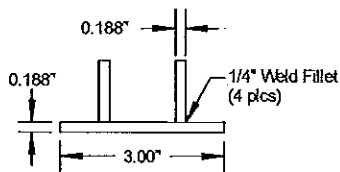
*[Signature]*  
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FLORIDA P.E. #B1242  
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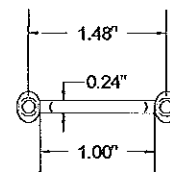
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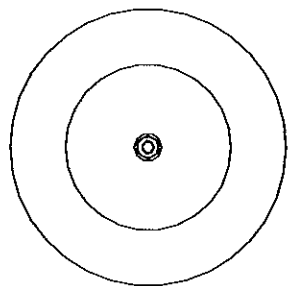
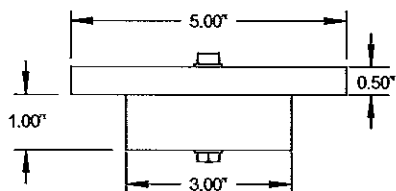
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**Corner Turret (8)**  
**Part #: 050**



**Footmans Loop (24)**  
**Part #: 701**



Stainless Steel Washer  
(McMaster 91090A105)

SHCS 1/4"-20 Thread,  
1-3/4" Length  
(McMaster 91251A548)

Neoprene Spring Rubber,  
1/2" Thick, 5" Dia. 70 A Dur  
(McMaster 8629K221)

Stainless Steel Washer  
(McMaster 91090A105)

Neoprene Spring Rubber,  
3" Dia., 1" Length, 75 A Dur  
(McMaster 8630K179)

Nylock 1/4"-20  
(McMaster 95615A120)

**Hub Plug (1)**  
**Part #: 202**

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Not To Scale

*[Signature]*  
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